

**DIRECTORATE OF RESEARCH
ANAND AGRICULTURAL UNIVERSITY
UNIVERSITY BHAVAN, ANAND-388 110(Gujarat)**



Dr. K. B. Kathiria
Director of Research & Dean PG Studies

☎ / Fax : 02692-263600(O)
e-mail : dr@aau.in

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No.AAU/DR/RES/T-2/ 3780 /2015

Date: 06-07-2015
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To,

All the Unit / Sub Unit Heads
AAU, Anand

Please find attached herewith the letter No. CAFT-Tr./2015/405 dated 26-6-2015 received from Dr. A.K. Rawat, Professor & Head, Director CAFT, Department of Soil Science and Agricultural Chemistry, Centre of Advanced Faculty Training, JNKVV, Jabalpur-482 004 (M.P.) regarding three weeks training programme on **“Climate Resilient Soil Management Strategies for Sustainable Agriculture”** which will be scheduled from **14-10-2015 to 03-11-2015** at Department of Soil Science and Agricultural Chemistry, Centre of Advanced Faculty Training, JNKVV, Jabalpur. This is for your kind information and further necessary action.

Encl : As Above


**DIRECTOR OF RESEARCH & DEAN
FACULTY OF P. G. STUDIES**

E-mail : directorcaftss@gmail.com
FAX : 0761- 2681119



(O) 0761-2681119
(M) 09826244797

Department of Soil Science and Agricultural Chemistry
CENTRE OF ADVANCED FACULTY TRAINING

Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) – 482 004

Dr. A.K. Rawat
Professor & Head
Director CAFT

No. CAFT-Tr./2015/405
dated: 26.06.2015

To,

Hon'ble Vice Chancellor
Anand Agricultural University
Anand 388110 (Gujarat)

Subject: Training programme under Centre of Advanced Faculty Training from 14.10.2015 to 03.11.2015.

Dear Sir,

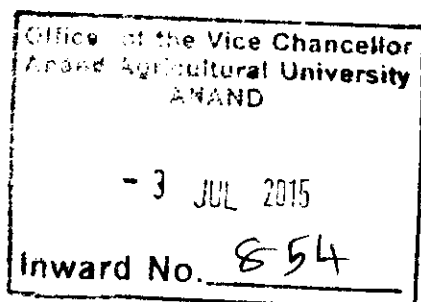
Three weeks training programme on **"Climate Resilient Soil Management Strategies for Sustainable Agriculture"** is scheduled in the Department of Soil Science & Agricultural Chemistry, JNKVV, Jabalpur from **14.10.2015 to 03.11.2015**. The programme is sponsored by ICAR New Delhi under scheme "Centre of Advanced Faculty Training".

It is therefore, requested to kindly give wide publicity in your University/institute and nominate one or two Associate Professors/Scientists from your university for the said training programme. The brochure of training programme is enclosed for ready reference and circulation. It is also available in the JNKVV website www.jnkvv.nic.in.

With regards,

Yours sincerely

Director



Dr. A.K. Rawat
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T-2
3-7-15

Date 07/07/2015
Recd. No. 24618

Recd. No. 24618

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NATIONAL TRAINING on

if selected, will be intimated on or before **5th October, 2015** by e-mail (preferably) / Fax / Speed post. The participants may plan their train reservations well in time to avoid any inconveniences.

TA & DA

The participants will be paid to and from travel fare by shortest route for the journey by rail, bus or other means of transport as per their entitlement, restricting to 2 tier AC train fare. The participants are requested to produce a copy of the ticket for reimbursement of the travel expenditure. Travel DA will be disbursed as per State TA rules.

BOARDING AND LODGING

The participants will be provided free accommodation in the Guest House No.2 of the Vishwa Vidyalaya on twin sharing basis and wholesome meals and refreshments as per rules of ICAR. Local participants will be provided lunch only.

LOCATION

The venue of the CAFT training programme is the Department of Soil Science & Agricultural Chemistry, College of Agriculture (JNKVV), Adhartal, Jabalpur (Madhya Pradesh). Jabalpur is well connected by air, rail and road from all major cities of the country. The mean temperatures during the month of October will be 25-30°C.

TRAVEL TO JNKVV

The College of Agriculture, J.N. Krishi Vishwa Vidyalaya, Adhartal, Jabalpur is about 8 km either from railway station or main bus station. Autorikshaw, city metro buses, taxi are available to reach the campus.

Application to be sent to:

Director

Centre of Advanced Faculty Training
Department of Soil Science & Agricultural Chemistry
College of Agriculture
Jawaharlal Nehru Krishi Vishwa Vidyalaya
Krishi Nagar, Adhartal, Jabalpur 482 004 (M.P.), India
Phone (O) : 0761-2681119
Fax (O) : 0761-2681119

Mobile: Dr. A.K. Rawat (Director, CAFT) : 9826244797

Dr. H.K. Rai (Course Coordinator) : 9669786678

E-mail: directorcafts@gmail.com; web: www.jnkvv.nic.in

Note: More copies of the application proforma can be reproduced, if required

14th October - 3rd November, 2015

Application Form for Participation in CAFT Training Programme (to be sent to the Director)

1. Name in full (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence:
(including e-mail address, telephone-O&R, mobile and fax numbers)
5. Permanent address:
6. Date of birth: Male/Female:
7. Teaching / Research experience:
(mention posts held during the last 5 years)
8. Training(s) received during last 5 years:
9. Number of publications:
10. Give details, if you have participated in any of CAFT trainings:
11. Need of this training and how it will help in your research and academic activities:
12. Academic records (graduation level onwards):

Examination	University	Division obtained	Year	Subject
1. B.Sc. (Ag.)				
2. M.Sc. (Ag.)				
3. Ph.D.				

Place:

Date:

Signature of the Applicant

FOR THE USE OF SPONSORING AUTHORITY

The application of Ms./Shr./Dr. is hereby recommended for attending the national training on "Climate Resilient Soil Management Strategies for Sustainable Agriculture" being organized by the Department of Soil Science & Agricultural Chemistry, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur from 14th October to 3rd November, 2014.

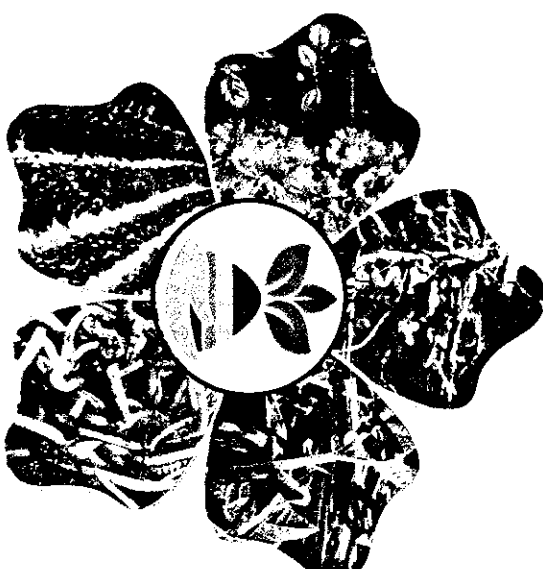
It is certified that the information furnished by the candidate has been verified and found correct

Signature of sponsoring authority

Place: Name & Designation:

Date: Department/Office (seal)

NATIONAL TRAINING
on
Climate Resilient Soil Management Strategies
for Sustainable Agriculture
(14th October to 3rd November, 2015)



CAFT Director
Dr. A.K. Rawat

Course Coordinator
Dr. H.K. Rai



Centre of Advanced Faculty Training
Department of Soil Science & Agricultural Chemistry
Jawaharlal Nehru Krishi Vishwa Vidyalaya
Krishi Nagar, Jabalpur 482 004 (M.P.)

Indian Council of Agricultural Research
New Delhi 110 012

NATIONAL TRAINING

on

Climate Resilient Soil Management Strategies for Sustainable Agriculture

14th October to 3rd November, 2015

BACKGROUND

The major constituent of any agricultural production system is the soils which performs a fundamental role within the ecosystem for prolonged crop productivity and maintain or enhance environmental quality by direct or indirect resilience at temporal and spatial scales. Strategies for soil management have always been focused on quality aspects and soil quality is a composite set of measurable physical, chemical and biological attributes which relate to functional soil processes and affected by management and climate change drivers. Defining soil quality in relation to climate change should consider the impacts of a range of predicted global change drivers such as rising atmospheric carbon dioxide levels, elevated temperature, altered precipitation and atmospheric nitrogen deposition on soil chemical, physical and biological functions. Climatic attributes are well connected with the potentials of any soil as a dynamic force. Therefore, future sustainability of both soils and agriculture are endangered under the projected climate change circumstances at national and global levels. Sustainably managed soil can increase food security by producing potential yields per unit land, with less water and energy. At the same time by maintaining organic carbon content in the soil, such a system will be able to effectively adapt to global climate change. Hence, an urgent need of investigation and learning is essential to frame out the climate resilient strategies for managing the soil resources to make agriculture sustainable.

Climate resilient soil management strategies should be focused on:

- Protection from degradation
- Good soil aggregation, higher infiltration and least runoff
- Recarbonizing the biosphere by sequestering carbon in soils and forests
- Greater population and activity of beneficial soil organisms
- Maximum nutrients and water use efficiency
- In-situ* conservation of nutrients and water
- Resistance to pest incidence

THE INSTITUTE

Government of India with the assistance of the State Government established the multi campus university at Jabalpur, in the heart of the country, named after the architect of

modern India, Pt. Jawaharlal Nehru, based on the recommendations of Radhakrishnan Commission (1946) on the concept of establishment of Agricultural Universities. An approach was envisaged to narrow down the gap between the experts and farmers through Joint Indo-American Team on Agricultural Research and Education in 1954-55 and 1959-60 on the pattern of Land Grant Colleges of USA. On October 2, 1964, Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV) was inaugurated by the then Union Minister of Information and Broadcasting, Smt. Indira Gandhi. The Central Administrative Offices of the University are located about 8 km North of Jabalpur town on National Highway No. 7.

ABOUT THE DEPARTMENT

With the establishment of the Faculty of Agriculture in Jawaharlal Nehru Krishi Vishwa Vidyalaya, the Department of Soil Science & Agricultural Chemistry came into existence during 1967. The Department runs M.Sc. (Ag) and Ph.D. degree programmes as scheduled by the Vishwa Vidyalaya. Soil Fertility & Plant Nutrition, Soil Physics and Soil Microbiology are the prime areas of specialization in the department. The department has established several magnificent milestones in research, teaching and extension activities for the benefit to mankind, particularly to the farming community.

COURSE CONTENT

1. Approaches to mitigate the impacts of climate change on soil quality

- Conservation agriculture
- Carbon sequestration in soil
- Augmentation of biological activity
- Reduction in soil erosion losses

2. Climate resilient strategies for *in-situ* soil moisture conservation and utilization

- Efficient land use planning for managing and rebuilding of soil-water
- Crop diversification
- Enhancing the infiltration rate for minimizing the surface runoff
- Enhancing water productivity

3. Opportunities for maximization of nutrients and water use efficiencies under projected climate change

- Managing weeds for reducing crop-weed competition and futile withdrawal of nutrients and water
- Composting of weeds for use as source of plant nutrients and improving the soil conditions

- Identification and use of weeds for removal of heavy metals from soil and water

4. Impact of climate change on heavy metal toxicity, pesticides residue in soil and water and their mitigation options

- Potential impacts of climatic variables on heavy metal toxicity in soil
- Approaches to minimize the impacts of heavy metal toxicity in soil-plant-human system

5. Climate resilient strategies for sustaining crop productivity

- Agronomic manipulation for sowing, scheduled irrigation, fertigation, genetic improvement, protection etc.

DURATION

21 days (14th October to 3rd November, 2015).

ELIGIBILITY

Assistant Professors / Scientists and Associate Professors, Scientists of SAUs, ICAR Institutes and other Agricultural Institutes with Masters Degree in Soil Science & Agricultural Chemistry / Agronomy / Horticulture/ Environmental Science Forestry are eligible to apply for the national training program

HOW TO APPLY

Application for participation in the national training programme may be made through Capacity Building Programme portal of Agricultural Education Division of Indian Council of Agricultural Research using the <http://www.iasri.in/cbp> or <http://www.icar.org.in>. Approved participants will be done through the same portal. After getting approval on the portal the application may be sent by post mail in the prescribed format through proper channel advance copy may be sent directly, however, final selection to be subjected to receipt of the application duly forwarded recommended by the competent authority.

2015

Last date of receipt of application is **15th September, 2015**. The selected candidates will be informed individually by e-mail (preferably) / fax / speed post latest by **25th September, 2015**.

After getting the information of the selection, the selected candidates are required to confirm their participation late **30th September, 2015**, otherwise waitlisted candidates will be taken into consideration. Last minute cancellation is appreciated and should be avoided. The wait listed participants